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Substitute for form 1449/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>		Application Number	to be assigned
		Filing Date	February 18, 2004
		First Named Inventor	John Santhoff et al.
		Art Unit	to be assigned
		Examiner Name	to be assigned
Sheet 1 of 4	Attorney Docket Number	048CIP-120	

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
KBJ		US- 3,668,639	06-06-1972	Harmuth	
		US- 3,678,204	07-18-1972	Harmuth	
		US- 3,728,632	04-17-1973	Ross	
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		US- 4,979,186	12-18-1990	Fullerton	
		US- 5,146,616	09-08-1992	Tang et al.	
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		US- 5,677,927	10-14-1997	Fullerton et al.	
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		US- 6,026,125	02-15-2000	Larrick, Jr. et al.	
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		US- 6,178,217 B1	01-23-2001	Defries et al.	
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FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear
KBJ		WO 01/39451 A1	05-31-2001	Multispectral Solutions, Inc	
		WO 01/93434 A2	12-06-2001	XtremeSpectrum, Inc	
		WO 02/31986 A2	04-18-2002	XtremeSpectrum, Inc	

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

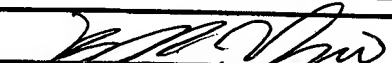
(Use as many sheets as necessary)

Sheet 2 of 4**Complete if Known**

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WPH		US- 6,026,125	02-15-2000	Larrick et al.	
		US- 6,690,741	02-10-2004	Frederick et al.	
		US- 2001/0033610 A1	10-25-2001	Chastain	
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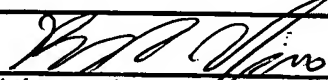
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NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
KB		DI WU, PREDRAG SPASOJEVIC, IVAN SESKAR, "Multipath Beamforming UWB Signal Design Based on Ternary Sequences", 40th Annual Allerton Conference, August 26, 2002, WINLAB, Rutgers University, Camden, New Jersey, USA.	
		HENNING F. HARMUTH, "Applications of Walsh functions in communications", IEEE Spectrum, November 1969, pgs. 82-91, USA.	
		ROBERT FLEMING, CHERIE KUSHER, "Integrated, Low-Power, Ultra-Wideband Transceivers for Distributed Position Location and Communication", Semi-Annual Technical Report Contract J-BFI-94-058, Aether Wire & Location, Inc. July 1995, Nicasio, CA, USA.	
		ROBERT FLEMING, CHERIE KUSHER, "Low-Power, Miniature, Distributed Position Location and Communication Device Using Ultra-Wideband, Nonsinusoidal Communication Technology", Semi-Annual Technical Report Contract J-BFI-94-058, Aether Wire & Location, Inc. July 1995, Nicasio, CA, USA.	
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		MOE Z. WIN, ZORAN A. KOSTIC, "Impact of Spreading Bandwidth on Rake Reception in Dense Multipath Channels", IEEE Journal on Selected Areas on Communications. Vol. 17, No. 10, pages 1794-1806, October 1999, USA.	
		MOE Z. WIN, GEORGE CHRISIKOS, NELSON R. SOLLENBERGER, "Performance of Rake Reception in Dense Multipath Channels: Implications of Spreading Bandwidth and Selection Diversity Order", IEEE Journal on Selected Areas on Communications, Vol. 18, No. 8, pages 1516-1525, August 2000, USA.	
		HENNING F. HARMUTH, "Frequency-Sharing and Spread-Spectrum Transmission with Large Relative Bandwidth", IEEE Transactions on Electromagnetic Compatibility, Vol. EMC-20; No. 1, February 1978, USA.	

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<i>JS</i>		MULTISPECTRAL SOLUTIONS, INC., Revision of Part 15 of the Commission's Rules Regarding Ultra-Wideband Transmission Systems" September 12, 2000.	
		ANNA SCAGLIONE, "Differential Direct Sequence Spread Spectrum for Ultra-Wideband Low Power Wireless Microsystems", University of New Mexico, Dept. of EECE, Albuquerque, NM, USA.	
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		ANUJ BATRA ET AL. & TEXAS INSTRUMENTS ET AL., Multi-band OFDM Physical Layer Proposal for IEEE 802.15 Task Group 3a, July 21, 2003, 71 pages.	
		DAVID CYPHER, Coexistence, Interoperability and Other Terms, September 2000, 18 pages.	

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